

The work describes GChat, a multi-platform collaborative vector editor specialised in diagram creation. GChat is a real-time (synchronous) system, which allows its users to work on the same document in the same time while immediately seeing other users' changes. The application is based on the shared document replication principle and uses Jabber protocol for communication. Among others, consistency and intention maintenance methods are described. Furthermore, distributed undo and redo operations are presented, including a rather novel selective mode. In its first part, this work also tries to summarise both current software products and algorithms in this course of study.